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Detection and Diagnosis of Intracranial Aneurysms: Concern and Pitfall

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Even though catheter angiography has been a gold standard in the diagnosis, evaluation, and follow-up of intracranial aneurysms to date, the role of magnetic resonance angiography (MRA) in aneurysms has rapidly increased due to the invasiveness and radiation exposure of the catheter angiography. Time of flight (TOF) MRA is currently the primary imaging tool for aneurysm screening because it has high resolution to detect the aneurysm and eliminates contrast media. However, due to the unique nature of generating signal of the TOF-MRA, there are some concerns and pitfalls that must be considered in the diagnosis and evaluation of aneurysms. Knowing and understanding these things will help to do an accurate reading.

Keywords: Intracranial aneurysm, MRI, diagnosis, pitfall